TOF-Watch ® SX Monitor

User manual

Version 1.2

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General information

Welcome to the TOF-Watch SX Monitor general help!

The TOF-Watch SX presents all relevant data (twitches, body temperature, transducer sensitivity, stimulation mode etc.) immediately and clearly on its LCD display. The TOF-Watch SX Monitor program is an application program which makes the real time data recorded by the TOF-Watch SX accessible to further processing on a personal computer. The two basic functions of the TOF-Watch SX Monitor are:

1. To log and to display on-line data coming from the TOF-Watch SX on the personal computer.
2. To display, export and print earlier recorded log sessions stored on a personal computer.

Menu commands and Tool bar

Getting started (example)

Getting started

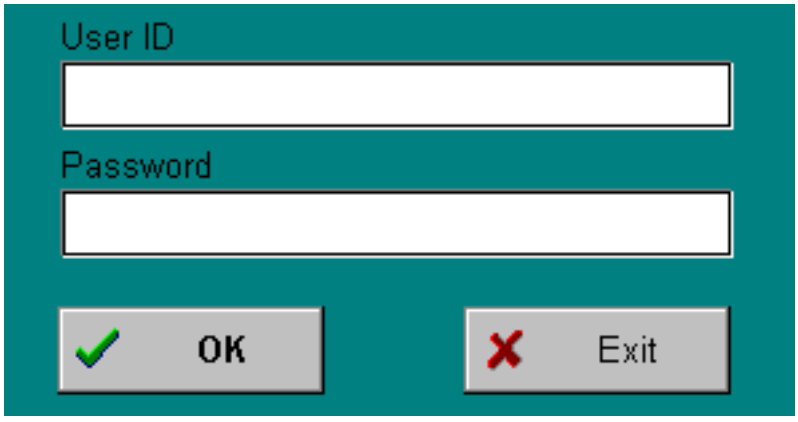
This is an introduction where you will be asked to perform some easy tasks in order to make you familiar with the basic features of the TOF-Watch SX Monitor program.

The following procedures instruct you to use the keys to select a field, box or button in a dialog box. Use TAB (and SHIFT TAB) to select fields, list boxes and buttons in a dialog box. Use ENTER to confirm your choices or ESC, if you want to cancel your choices or leave the dialog box. You can also use a mouse to click on fields or buttons.

Start up and log in to the program

Start the TOF-Watch SX monitor program by clicking on the related icon in the program manager.

Before the TOF-Watch SX monitor can be used You will have to identify Yourself to the program. This is accomplished by typing Your User ID followed by ENTER. Now type in Password followed by ENTER.



If You entered a valid combination of ID and Password the main program window gets active. Please note that You must contact Your SUPERVISOR to get Your own personal User ID and Password. The SUPERVISOR controls witch kind of jobs You are allowed to perform. These trusties are:

Log to file Your are allowed to create and modify files while in an active logging session with the TOF Watch SX.

Open file You must only view files and You are not allowed to make any changes to them

To get full access You must be granted both of the above trustees.

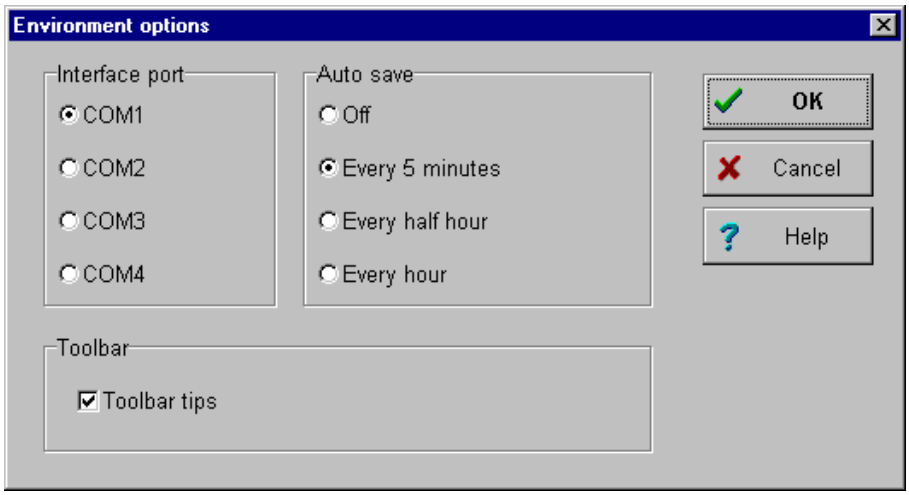
Set the port options

To activate the Options|Environment dialog box press:

ALT O (options)

N (environment)

The Options|Environment dialog box appears on the screen.



Set the Interface port to the one connected to the TOF-Watch SX.

Set the Auto save to Every 5 minutes to ensure minimum data loss in case of a power break down.

Press ENTER to confirm your choices.

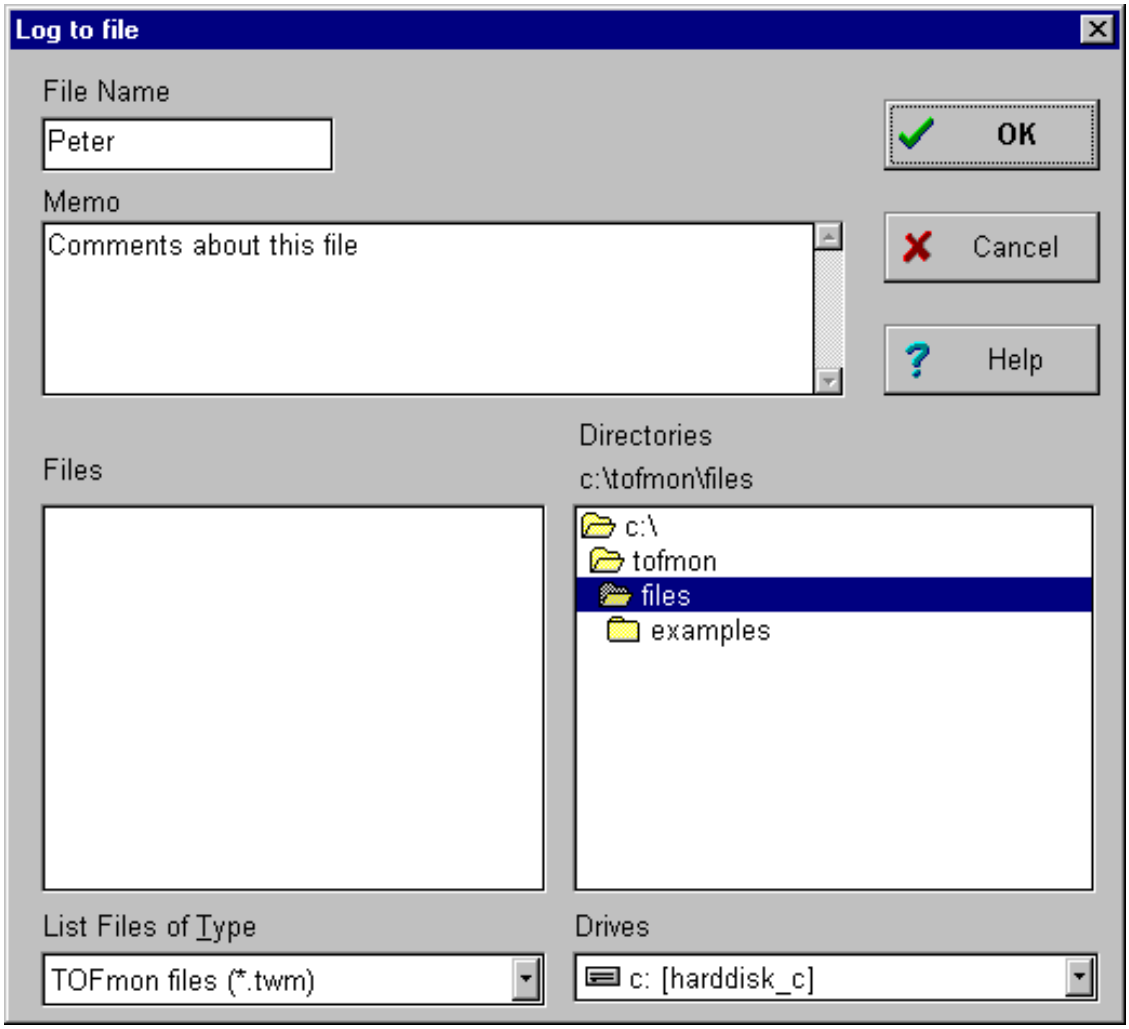
Log to a file

Connect the TOF-Watch to the selected serial port.

To activate the File|Log to file, press:

F2 (Log to file)

The File|Log to file dialog box appears on the screen, with the cursor in the File Name field.



Type the name of the file you want to log the result to. As an example, type:

peter

Press TAB to move to the Memo field, where you can make notes about the file. As an example, type:

Log file of Peter .....

Press TAB until the focus is on the OK button and Press ENTER. The program will now show the File Window and try to connect to the TOF-Watch.

Press ESC to cancel the creation of a Log file.

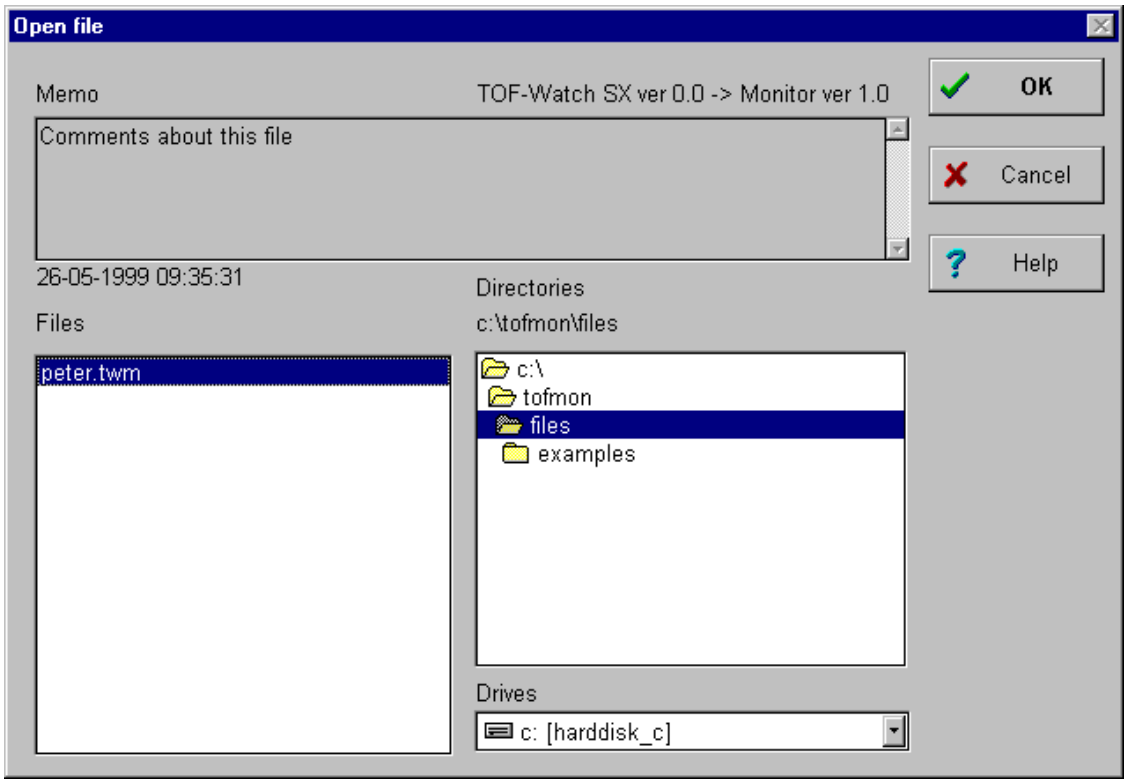
Press CTRL F4 to close the file window after completion of Your logging session. The Save File dialog box will appear and remind You to edit the log memo before saving the file.

Load and/or print a log file

To activate the File|Open file dialog box, press:

F3

The File|Open file dialog box appears on the screen.



To select the file you want to display and/or print, use the arrow keys or type the name of the file (the cursor in the list of names will follow and end up on the name you typed).

As an example, select the file *peter.twm*, which you created.

Press ENTER (or click OK button).

The file data appear in a File Window. If you want to print the graph, press

ALT F (File)

G (Print graphics window)

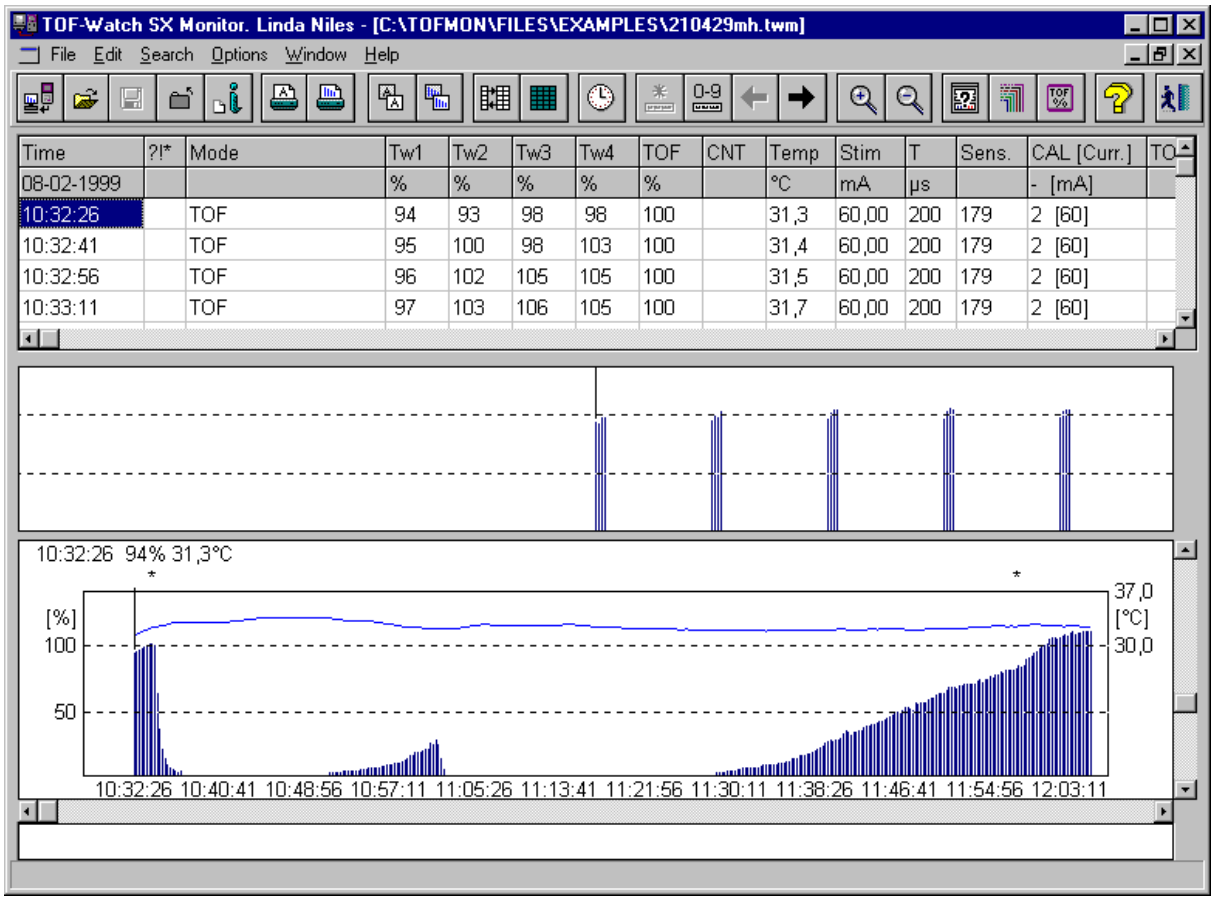
and when the Print graphics window appears just press ENTER (or click OK button) to print the current graphics window in "Fit to page" mode.

Press CTRL F4 to close the file window.

Press ALT X to exit the program.

File Window

The File Window comprises three windows: the Info, Zoom and Graphics Window. These windows can be individually toggled on/off using the Options|File Window dialog box.



The three windows each have their own way of presenting the TOF Watch SX data. The windows are all correlated, meaning there can only be one selected event in the file to which the cursor is pointing.

Info Window

The Info Window (upper window) contains information about the currently selected twitch (i.e., the twitch which the Twitch Cursor in the Zoom Window and the Graphics Window is pointing at). The window is built up in rows and columns like a spreadsheet. See the Options|File window dialog box for field description. Navigate in the Info Window by clicking with the mouse or using arrow, page up/down or home/end keys.

Either a part of or the whole Info Window can be selected and copied to the clipboard. To select an area with the mouse, click on one of the corner cells in the area to be selected, hold it down and drag to the opposite diagonal corner. To select an area with the keyboard, move the cursor to one of the corner cells in the area to be selected, press and hold down the shift key while moving the cursor to the opposite diagonal corner with the arrow keys.

Zoom Window

The Zoom Window (middle window) is a 'selective enlargement' of the twitches close to the Twitch Cursor in the Graphics Window. The Zoom Window always employs the Normal Mode, showing all twitches in a TOF. A twitch in the Zoom Window can be selected by clicking with the mouse directly on the twitch.

Graphics Window

The Graphics Window (lower window) shows a graph presenting all twitches in real time in either Normal Mode or Trend Mode.

When a pre recorded file is opened, the logging data are compressed so that the entire session fits in the Graphics Window.

To move the Twitch Cursor from left to right or right to left, you can use a mouse or the keyboard (refer to the list below for which keys to use). If you use a mouse, just click directly on the twitch to which you want to move the Twitch Cursor. If the target twitch is not within the visible part of the file, scroll the file by dragging the thumb tab on the scroll bar below the Graphics Window or by dragging the graph itself by holding down the right mouse button while moving the mouse. The scroll bar indicates the position of the visible part of the file relative to the whole file. [Data of the twitch which the Twitch Cursor is pointing at are presented in the Info Window.]

The Graph can be freely zoomed in and out by means of the scroll bar to the right of the Graphics Window. Alternatively You can use the two zoom +/- buttons located in the tool bar.

Below the graph, Time is given in hours, minutes and seconds (hh:mm:ss). During a logging session small comments can be placed simply by typing in letters in the marker box below the Graphics Window. Pressing any valid letter will initiate the marker editing. Pressing ENTER while the marker box is focused will return the focus to the Info Window. Where a marker has been placed, a '*'-mark appears in the 2nd column and also above the related event in the Graphics Window.

Pressing will generate a special real time 'Comment' event in the log file. It can be used to set a comment where no measurement data is at hand. A 'Comment' event cannot be deleted, but its comment field can be edited just like a normal comment.

Other special symbols above the graph in the Graphics Window are '?' and '!'

'?' means that an error was reported by the TOF-Watch or by the logging program.

'!' means that the TOF-Watch has detected a TOF alarm.

The Graphics Window can also contain the temperature curve in the area between 100% twitch height and the top border line. The upper and lower temperature limits of the temperature curve correspond to the chosen and recorded temperature range.

Keyboard shortcuts for the File Window

PGUP	scrolls the Info Window up by one page and moves the cursor accordingly.
PGDN	scrolls the Info Window down by one page and moves the cursor accordingly.
↑	scrolls the Info Window up by one step and moves the cursor one step to the left.
↓	scrolls the Info Window down by one step and moves the cursor one step to the right.
HOME	selects the first row of the file and moves the cursor to the beginning of the graph.
END	selects the last row of the file and moves the cursor to the end of the file.
CTRL PGUP	select the top row in the visible part of the Info Window.
CTRL PGDN	select the bottom row in the visible part of the Info Window.
CTRL ↑	scroll the visible Info Window up without moving the cursor.
CTRL ↓	scroll the visible Info Window down without moving the cursor.
CTRL HOME	selects the first cell of the info window.

CTRL END	selects the last cell of the Info Window.
SHIFT HOME	selects the first cell of the selected row in the info window.
SHIFT END	selects the last cell of the selected row in the Info Window.
SPACE	opens up the standard comments dialog box as an easy way of selecting between the 10 user defined standard comments.
Any letter	Any valid letter or digit will appear in the marker box when typed on the keyboard.

Edit Marker

By hitting a valid letter while in logging mode, the cursor is frozen on the current event and the marker edit box provides an easy way of making comments about certain events recorded by the monitor program. Each marker inserted will generate a * in both the Info Window as and in the Graphics Window Hitting ENTER will terminate the editing and release the cursor

Status Line

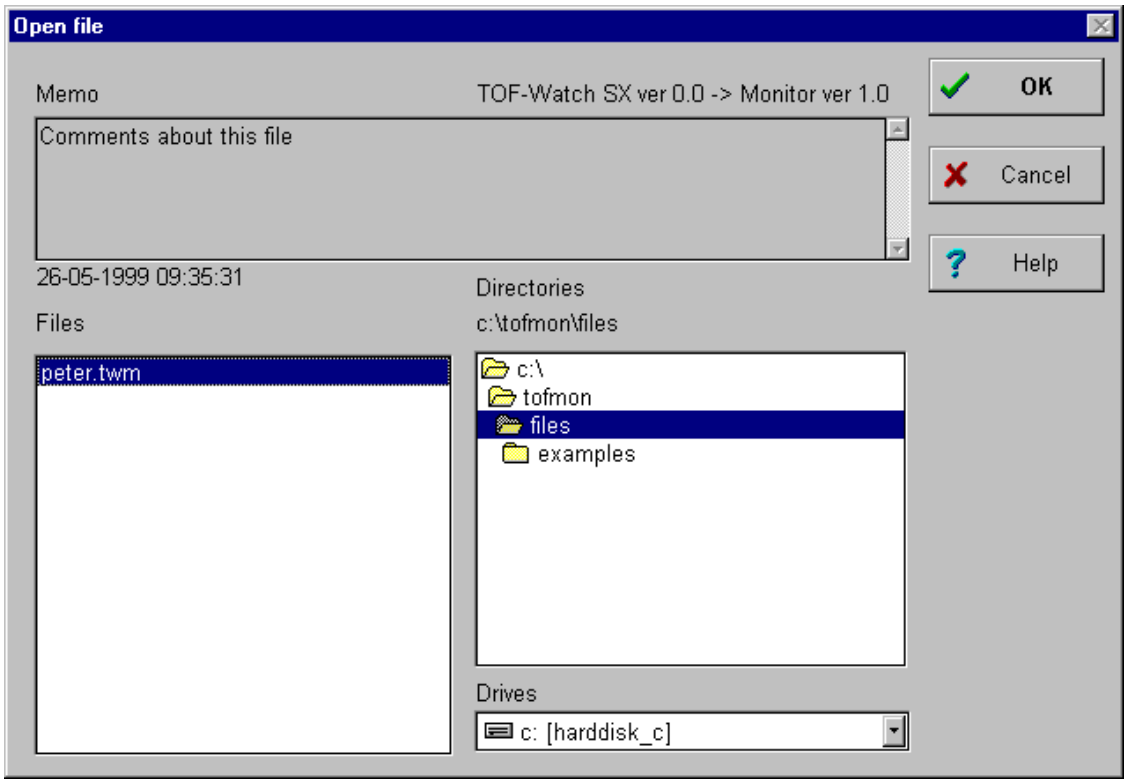
This line is mainly used to provide error information reported by the TOF-Watch SX or by the monitor program.

File Menu

Command	*Keyboard*	*Tool bar*	*Description*
Log to file	F2		Creates a log file and Initiates a logging session.
Open file	F3		Display a file on the monitor, export a file to ASCII format or print out the file.
Save file	F4		Displays the Save file menu from where You can save and rename the currently active log file.
Close file	CTRL F4		Close the active File Window.
Export file	F5		Displays the Export file menu from where You can export the current file to text format for further processing.
File info	F6		Displays information about the file.
Print info window			Print selected rows in the Info Window or print an Audit Trail.
Print graphic window			Print the visible section of the graph contained in the graphic windows. The print out can be made at various resolutions.
Print Screen			Print the desktop (entire window area of the TOF-Watch SX Monitor).
Printer Setup			Windows standard Printer Setup dialog box.
Log out			Log out from the current session.
Exit	ALT F4		Close all windows and exit the program.

File|Open File

This dialog box is used to load log files for displaying and printing.



Memo

In this state the Memo field displays the notes about the currently selected file in the Files list box.

Files

This list box shows the files in the current directory, sorted in alphabetic order. To search for a specific file name in the directory, type a letter for incremental search or scroll the list by using arrow keys or page up/down. Furthermore, the contents of the selected file's Memo field is shown above this file list.

Directories

Select the directory designating the location of the file you want to use.

Drives

Select the drive designating the location of the file you want to use.

OK button

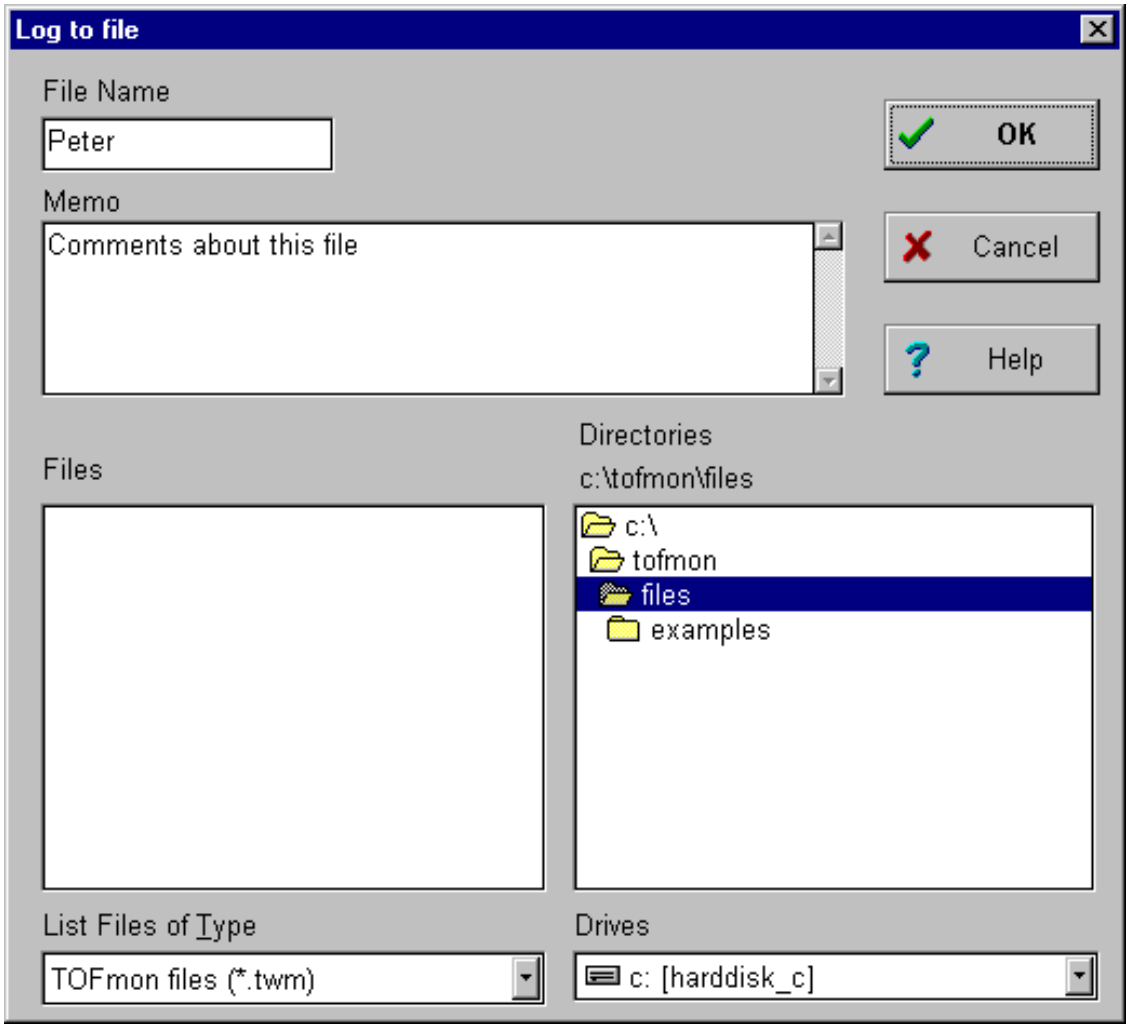
Press this button, and the selected file is loaded and displayed in a File Window as real time graphs, curves and text.

Cancel button

By pressing this button, the dialog box will be closed without making any changes.

File|Log to file

This dialog box is used to select a file to contain the output data from the TOF-Watch (floppy or hard disk).



File Name

The file name may have up to eight characters. The characters allowed are the same as DOS allows for file names. The program will not create a file if you do not use a correct syntax.

Memo

In the Memo field you may enter some notes about the file in question. But this is optional. These notes will be saved along with the TOF-Watch SX data. The memo can be edited later both during the actual log and also after the session has been terminated.

Files

This list box shows the files in the current directory, sorted in alphabetical order. Before naming the file you are about to create, you can check if the file name already exists. To search for a specific file name in the directory, type a letter for incremental search or scroll the list by using arrow keys or page up/down.

Directories

You use this list box to select the directory whose contents you want to view.

This box shows the directory that is currently used as default logging directory. It means, that the File|Log to file and File|Open File dialog boxes will show the files in this directory as default.

This box shows a tree from the disk's root to the currently selected directory, and the currently selected

directories' sub-directories.

List Files of Type

This field determines which file types are to be included in the Files list box.

Drives

Select the currently active drive. The directory structure for the current drive appears in the Directories list box.

OK button

By pressing this button, the program creates a file, with the name specified in the File Name field, and tries to initiate a logging session with the connected TOF-Watch SX.

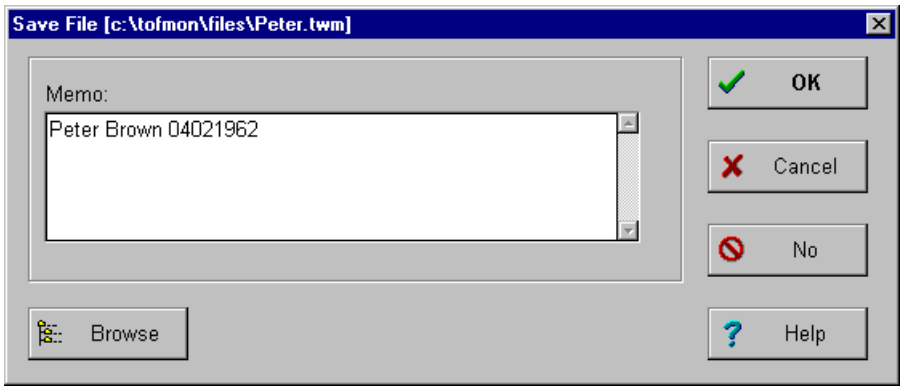
Cancel button

By pressing this button, the dialog box will be closed without creating a file.

NOTICE: Before logging can take place please set up the port to which the TOF-Watch SX is connected (Options|Environment).

File|Save File

The window is used to edit the memo before saving a file.



Memo

Here You can enter or edit notes about the active log file before the file is saved.

OK button

By pressing this button, the dialog box will be closed and the file will be saved.

Cancel button

By pressing this button, the dialog box will be closed and the previous operation will be canceled.

No button

Warning by pressing this button You choose not to save the file You have just recorded.

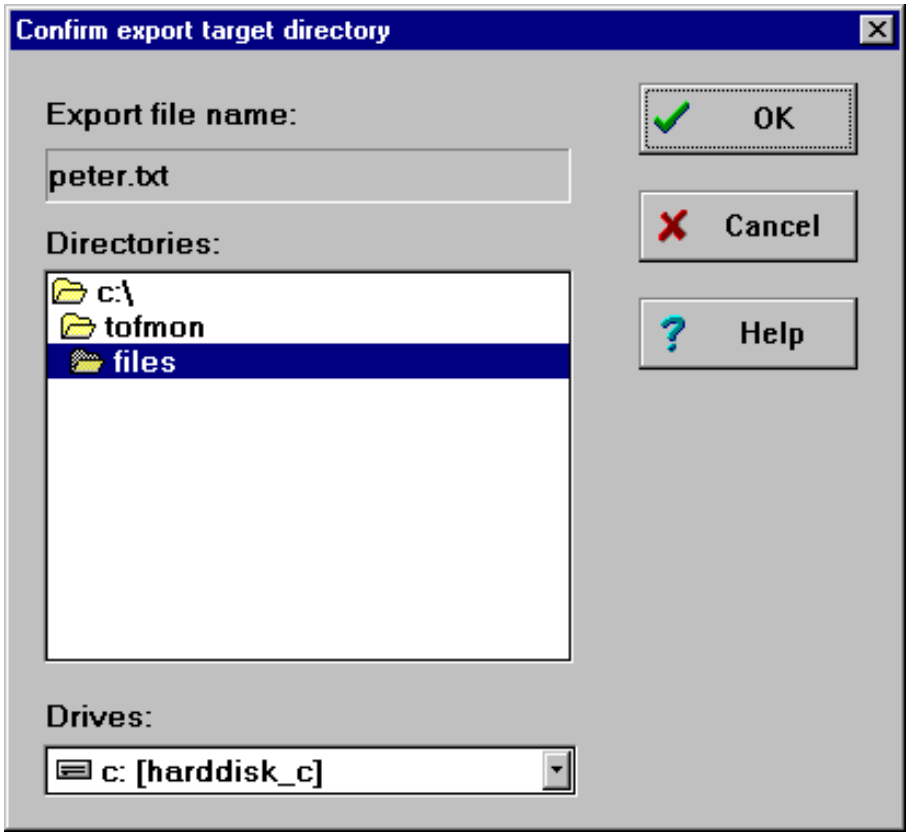
Browse button

By pressing this button, the browse dialog box will be opened. From here You can change the file name and the file location.

File|Export File

This dialog box appears with the target directory for the export file and needs to be confirmed by pressing the OK button

The export location is defined in the Options|Export Files dialog box., but can be temporary overruled by using this dialog box.



Export File Name

The name of the file about to be created.

Directories

Select the directory designating the location of the export file to be created.

Drives

Select the drive designating the location of the export file to be created.

OK button

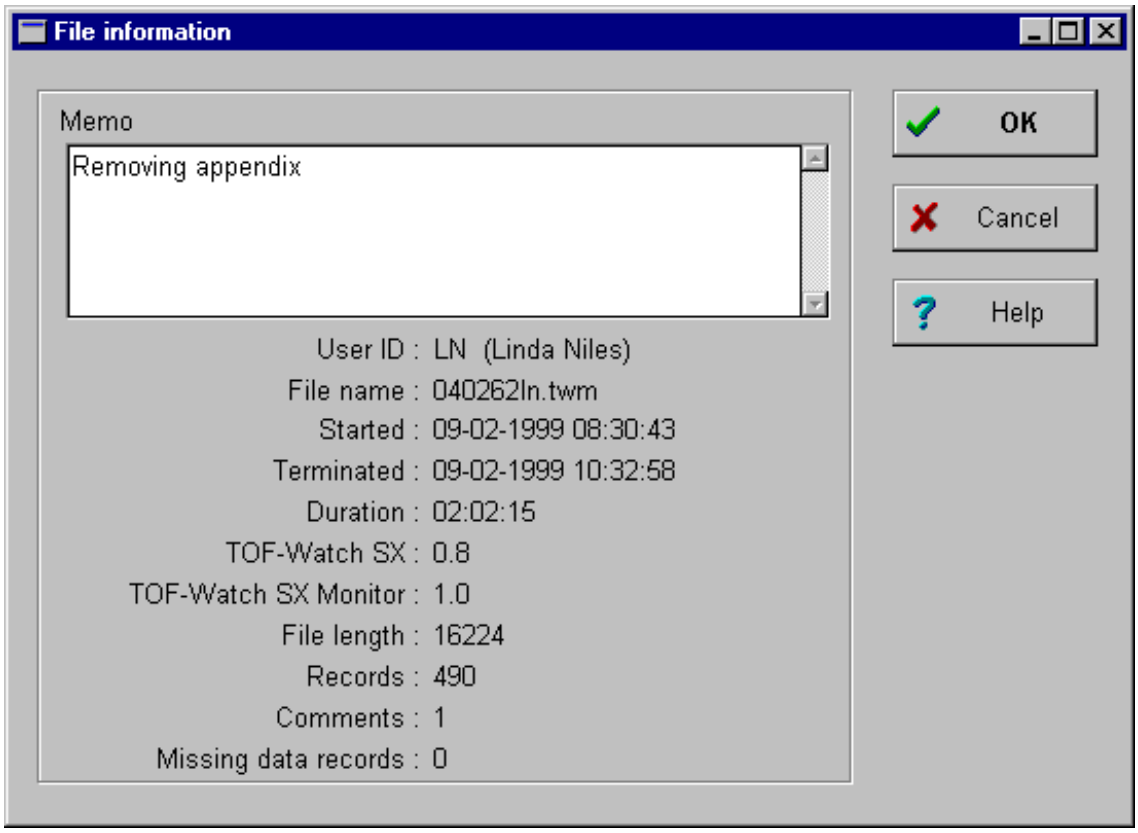
By pressing this button the export operation is performed.

Cancel button

By pressing this button the export operation is canceled.

File|File info

This window holds relevant information about the active file. The memo field can be edited



User ID

The User ID and name of the person responsible for the original logging session.

Memo

Contains the file memo and can if be modified if Your user trusties allows file logging.

File name

Name of the file. This name can be changed by saving the file under another name.

Started

Time of the first measurement event.

Terminated

Time of the last recorded measurement event.

Duration

Duration of the complete log file from first entry to last recorded event.

TOF-Watch SX version

The software version of the TOF-Watch SX responsible for the data.

TOF-Watch SX Monitor version

The software version of the TOF Watch SX Monitor program responsible for receiving the original measurements.

File length

The total length of the file in bytes.

Records

The total number of records in the file.

Comments

The total number of user comments in the file.

Missing data records

Total number of missing data records. The Monitor program uses a sequential technique that allows it do detect any missing data packages. The slower a computer or the more machine resources other concurrent programs use the bigger a chance that the monitor program will miss some of the logging data. Therefore please restrict the use of other open programs to an absolute minimum while running the TOF-Watch SX Monitor program.

OK button

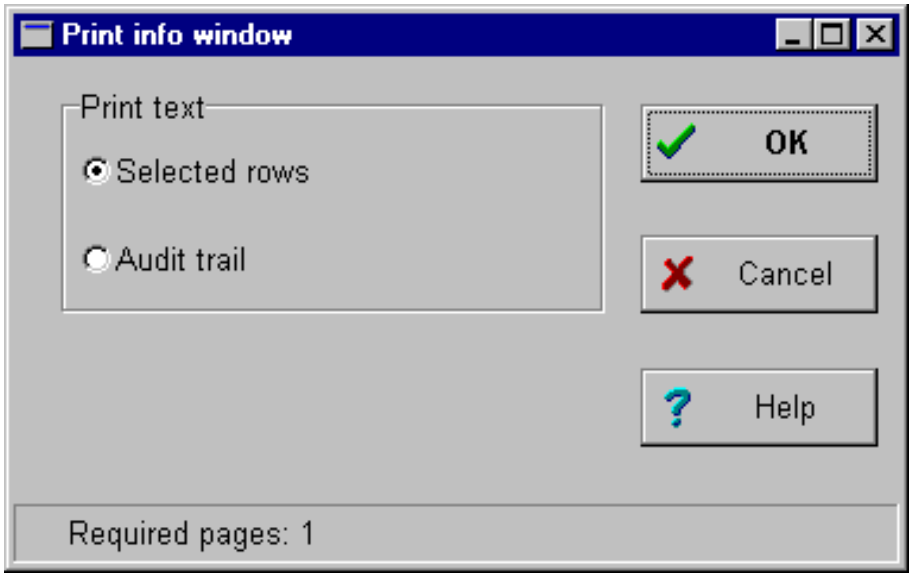
Stores changes to the memo field and closes the window.

Cancel button

Discards all changes to the memo field and closes the window.

File|Print info window

This dialog box controls the print-out of the info window. The print-out contains mode data, numerical data and user comments. The print-out is equipped with a time stamp and the output format will automatically be adjusted to the paper size.



Print selected rows

Prints a copy of the selected rows in the info window.

The printout will hold all visible data in the rows that has been selected by the user. To print the whole file first select all rows by clicking on and then enter the Print info window dialog box by clicking on and click OK.

Print Audit trail

Prints an Audit trail of all actions done by the operator. This includes all comments and all corrections made to those comments together with a time stamp.

The Audit trail can be used to document all changes made during and after the actual recording of each event and could be very useful if someone by accident erased the text of an important comment.

OK button

Starts printing on the printer

Cancel button

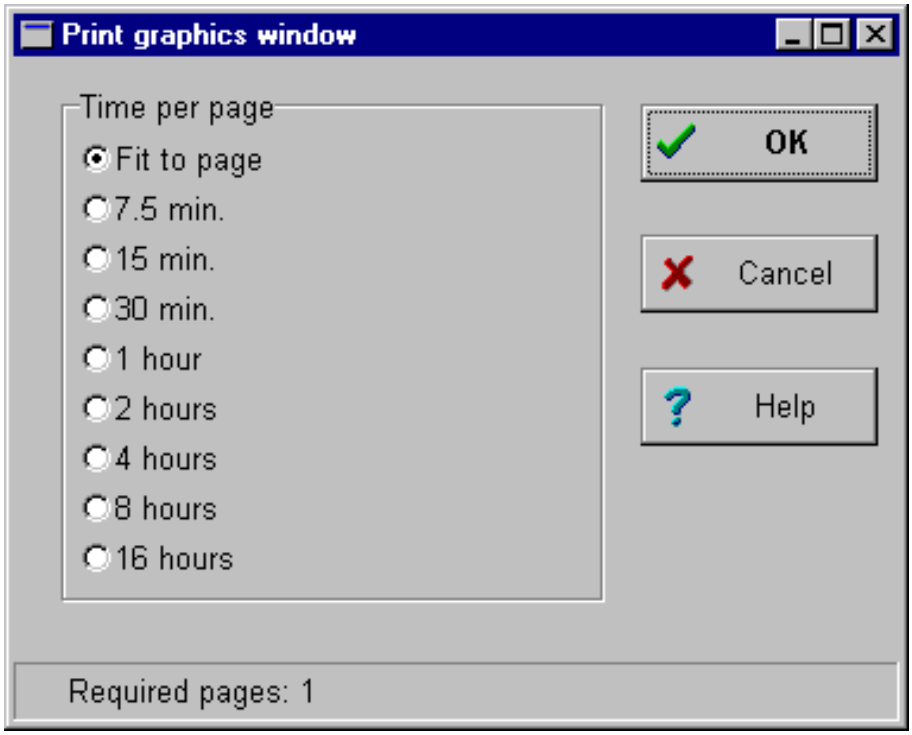
Closes the dialog box or cancels a printout.

Status line

The status line reflects the required number of pages for the selected print-out. During the print-out the status line reflects the progress of the printing.

File|Print graphics window

This dialog box controls the print-out of the graphics window. The print-out will contain the currently visible graphical data. The print-out is equipped with a time stamp and the output format will automatically be adjusted to the paper size. You can select exactly what You want on You print-out by combining the scale and the actual window size before pressing



Fit to page

The currently visible part of the graphics window will be scaled so that it fits on one page.

Time per page

The currently visible part of the graphics window will be scaled so that one printed page equals the selected amount of time. Use these fixed time scales if You want to make comparable prints-outs, but watch out for the required number of pages presented in the status line.

Status line

The status line reflects the required number of pages for the selected print-out. During the print-out the status line reflects the progress of the printing.

OK button

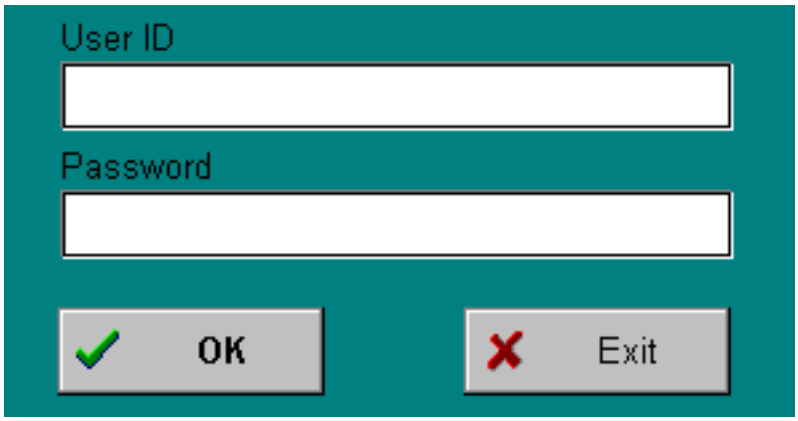
Starts printing on the printer

Cancel button

Closes the dialog box or cancels a printout.

File|Log out

Logging out of the system will close all active file windows and bring up a new log in box:



User ID

Type in Your user ID. Contact Your SUPERVISOR to get a user ID.

Password

Type in your password. contact Your SUPERVISOR if You have forgotten Your password. The Supervisor will not be able to read Your current password but he may assign a new password for You. After having logged in for the first time is wise to change You password in the Options|User menu.

OK button.

Press the OK button or ENTER to log in to the system. You have 3 attempts before the program will be terminated.

Exit button

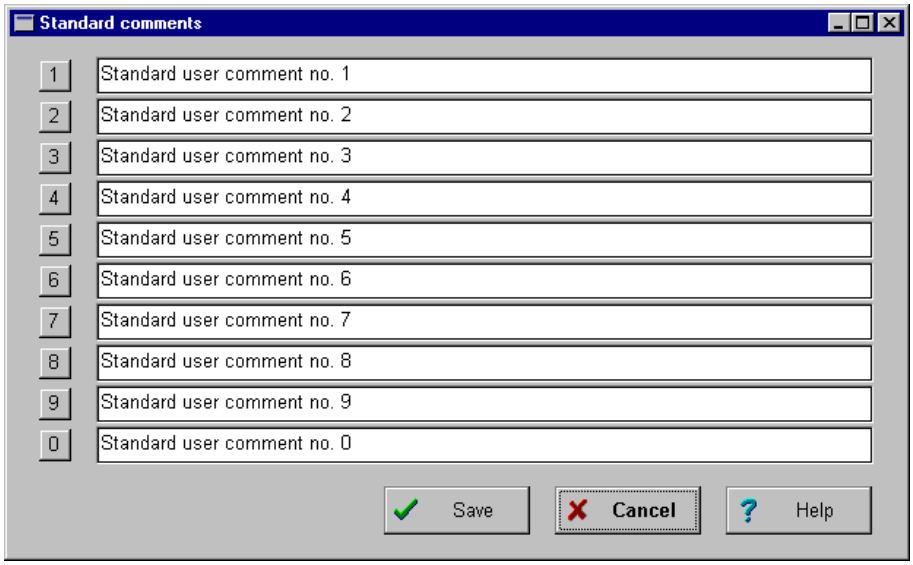
Press the exit button or ESC to exit the program.

Edit Menu

Command	*Tool bar*	*Description*
Copy Info Window		Copy the selected fields of the Info Window to the clipboard. The header fields are automatically added to the clipboard data.
Copy Zoom/Graphics Window		Copy the visible windows of the Zoom Window and the Graphics Window to the clipboard.
Toggle Fields		Choose between showing all possible fields in the Info Window and only showing the fields selected in the Options|File Window dialog box.
Select All		Select all fields in the Info Window for copying or printing purposes.
Reference Time		Toggles between absolute time and relative time to the current cursor location. Selection of relative time is indicated by brackets "<hh:mm:ss>" around the cursor time in the Graphics Window.
Insert comment		Insert a time true comment. Normally You enter a comment related to a certain measurement. Some times it could be important to enter a comment that is not necessarily related to a specific measurement but related to some other time related event. Use the to add this kind of comment. You can the edit the comment field in the normal way.
Standard comments		Insert a pre-defined standard comment
Zoom In		Zoom in on the current cursor position in the Graphics Window. The limit of magnification is a time resolution of four pixels per second (like the Zoom Window).
Zoom Out		Zoom out on the current cursor position in the Graphics Window. The limit is so that all data fits well inside the Graphics Window..

Edit|Standard Comments

As a help in the daily work a set of 10 pre-defined comments can be accessed by pressing SPACE or by means of the tool bar icon



Speed Keys

Press one of the keys (mouse or keyboard) to insert a pre-defined comment into your log file. The window will stay open until canceled.

Note: If no standard comments has been selected for editing then pressing * will still generate a special real time 'Comment' event in the log file.

User editable comments

Edit the pre-defined comments.

Warning: All uses will have access to the same set of pre-defined comments.

Save button

Pressing this button will make any changes to the standard comments permanent.

Cancel button

By pressing this button, the dialog box will be closed without making any changes to the standard comments.

Search Menu

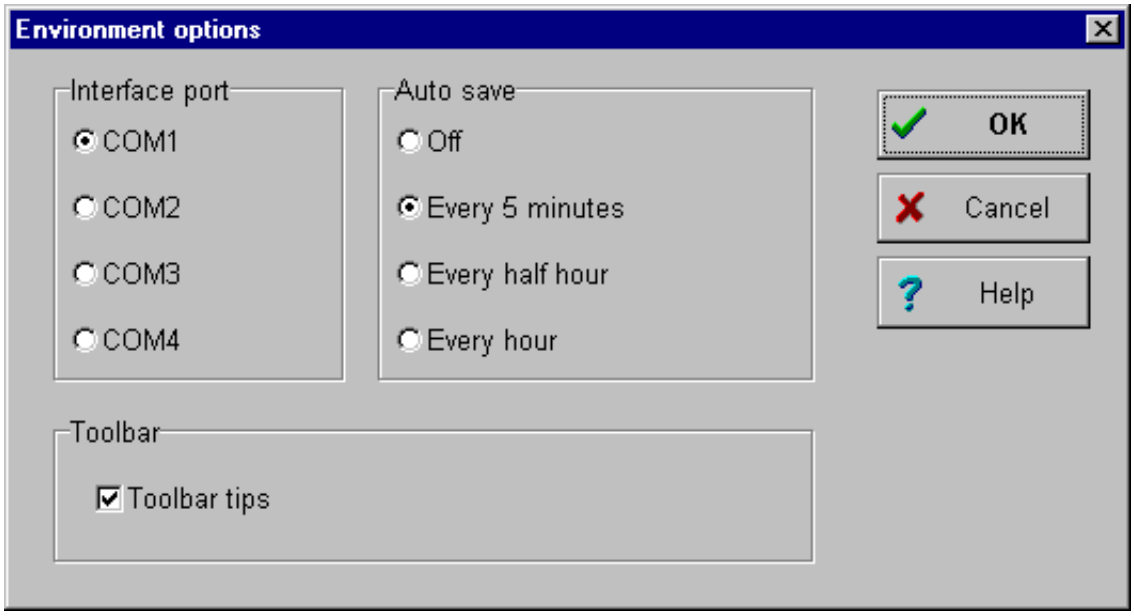
Command	*Tool bar*	*Description*
Previous comment		Search for the next user comment in the file.
Next comment		Search for the previous user comment in the file.

Options Menu

Command	*Tool bar*	*Description*
Environment		Dialog box to select the serial port of the personal computer to which the TOF Watch SX is connected. "Auto save" and "Tool bar tips" can also be controlled here.
Export files		Dialog box to select the target directory of the exported files, and their export format.
File window		Dialog box to set up the way a file window is displayed, including visible Info, Zoom or Graphics Window, visible fields in the Info Window, visible temperature curve etc..
Standard Comments		Dialog box where 10 different and often used comments can be stored and easily inserted.
Legend window		Toggle the Legend Window on/off. This window contains legends of all twitch types that can appear in the Zoom and Graphics Window. It is always on top of the File Windows. The window is re-sizable, and can be dragged to any position on the screen.
Status window		Toggle the TOF-Watch SX status window on and off. The status window will only show if logging mode is active and connection to the TOF-Watch SX has been established.
Users		Dialog box where various user information can be changed. If You are logged in as SUPERVISOR this option enables the creation and deletion of users.

Options|Environment

You use this dialog box to select the serial port to use for connection to the TOF-Watch SX. Also the Auto save function and the Tool bar tips can be controlled here



You must setup the program to use a free serial port for connection to the TOF-Watch SX. Plug the Optical interface converter with fiber cable into a free COM port and click on this port (COM1-4).

IMPORTANT: Make sure that Your serial port is capable of handling transmission speeds of at least 19200 baud.

Interface port

Select a serial port through which the communication takes place.

Auto save

If not set to *Off* the Auto save function ensures that the all logging data is automatically saved to disk at the given fixed intervals determined by the setting. This minimizes the risk of loosing valuable data during a real time logging session.

Tool bar

Toggle the tool bar tips (the help text bubble that appears below the icon approximately one second after the mouse cursor is placed on the button).

OK button

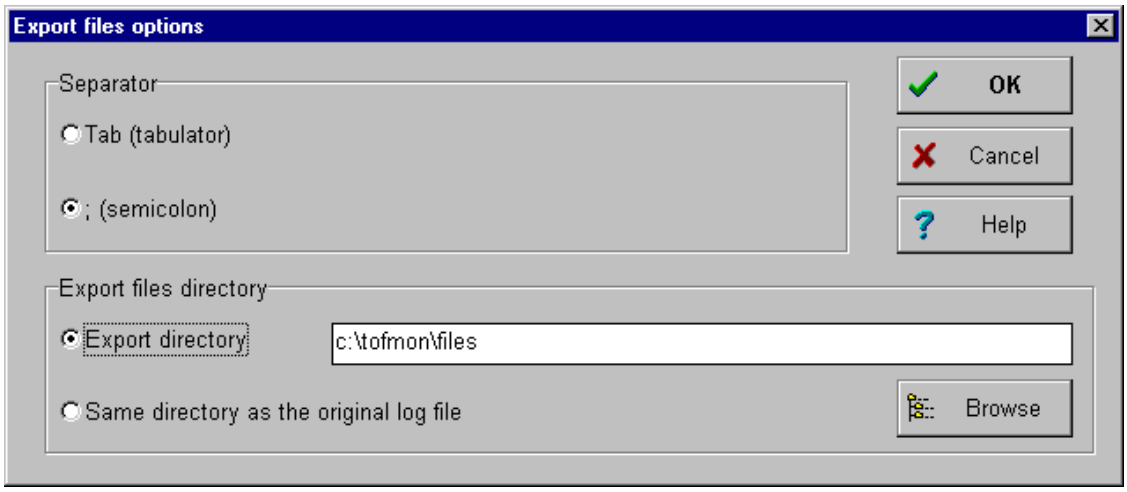
Press this button to accept the settings in the dialog box, save them permanently (i.e. use them as the new standard options) and close the dialog box.

Cancel button

By pressing this button, the dialog box will be closed without making any changes.

Options|Export Files

You use this dialog box if you want to work with text files.



The TOF-Watch SX monitor saves all data from a logging session in an encrypted format under the file name specified by the user (with the extension 'twm' automatically added). These data can be converted to a text file format (with the extension 'TXT' automatically added) This happens via the Export file item in the File menu.

Export Files Directory

In this box you can choose where to save the export files. You can make the default destination either a user defined export directory or the same directory as the original log file.

If you select the user defined directory you have to specify the path in Export Directory field, either by typing the full path directly or by using the Browse button).

Separator

In this box you specify the character which you use as a field separator in your text files. The separator is a character that tells your spreadsheet program how to split up the text file in columns.

OK button

Press this button to accept the settings in the dialog box, save them permanently (i.e. use them as the new standard options) and close the dialog box.

Cancel button

By pressing this button, the dialog box will be closed without making any changes.

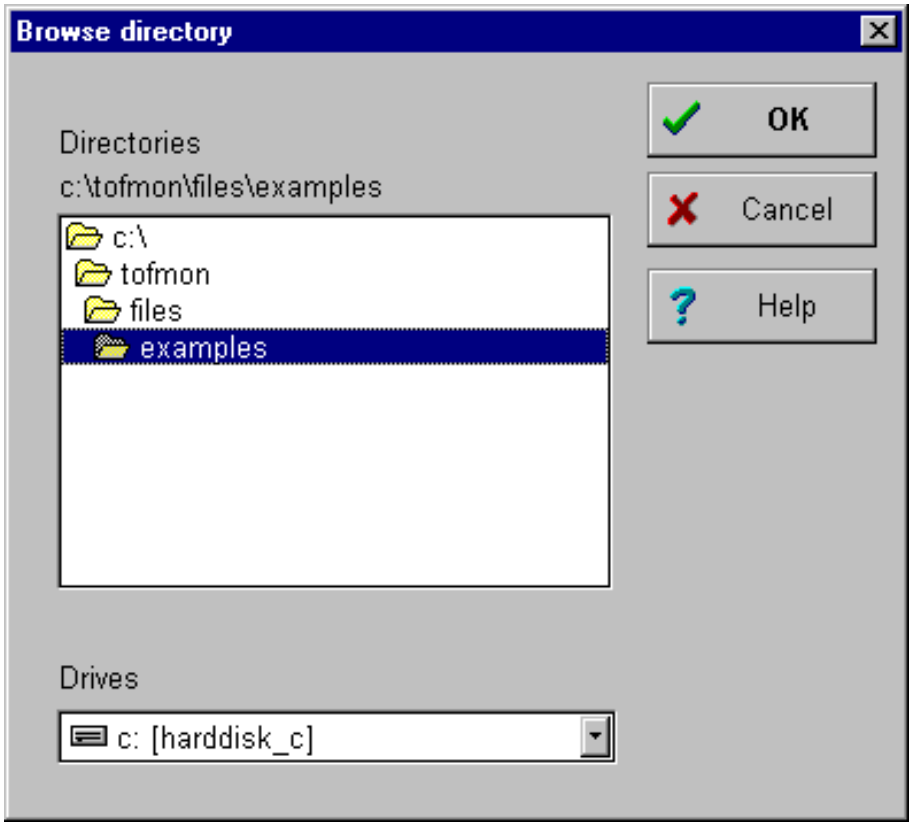
Browse button

By pressing this button, the Browse directory dialog box appears. The default directory in this dialog box is either the directory in the Export Directory field or the last log file directory used.

To transfer Your text file to a spreadsheet program, you either have to IMPORT your file or OPEN it, depending on the spreadsheet you use. In both cases, you have to select the comma separated format in your spreadsheet import menu ('comma separated' means that fields are separated by a character which does not necessarily have to be a comma, but can also be a semicolon, TAB etc.). If your spreadsheet has no option 'comma separated format' on its import menu, try 'number format' or other options to find out which import method works best with your spreadsheet files.

For detailed information on importing files refer to the spreadsheet program manual.

Options|Export Files|Browse Directory



Use this dialog box to select the directory where You want to put the export files.

Directories

Select the directory designating the location you want to use.

Drives

Select the drive designating the location you want to use.

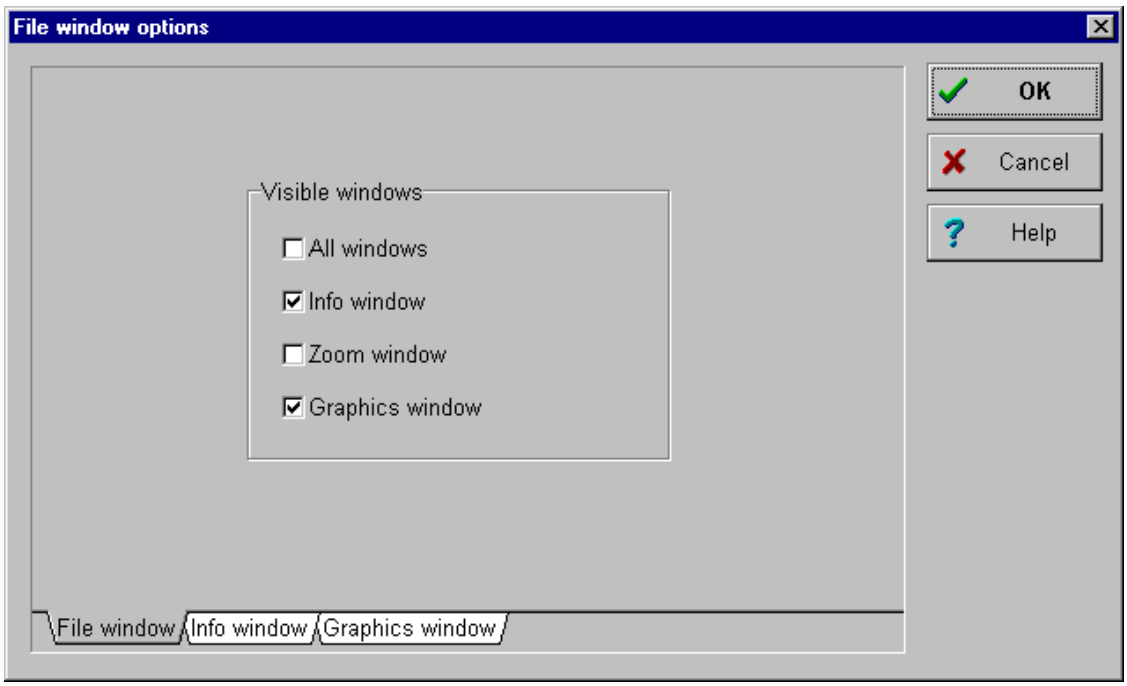
OK button

Press this button to close the Browse Directory dialog box returning the chosen directory.

Cancel button

Press this button to close the Browse Directory dialog box without returning the chosen directory.

Options|File Window



This dialog box is used to set up the way a File Window is displayed. The first page is a general set up of the File Window, the rest are the windows within the File Window.

IMPORTANT: The changes in the File Window setup affect not only the active, but all open windows on the desktop!

Visible Windows

Choose which windows are to be visible in the File Window.

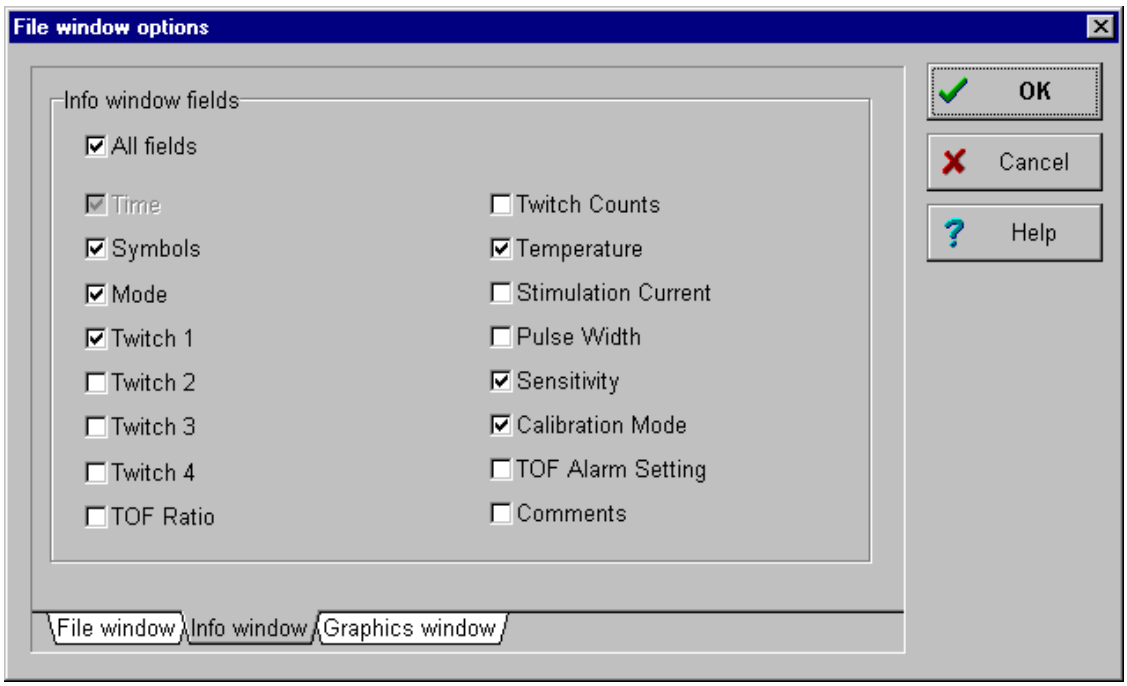
OK button

Press this button to accept the settings in the dialog box, save them permanently (i.e. use them as the new standard options) and close the dialog box. Furthermore, all open File Windows will be updated according to the settings in this dialog box.

Cancel button

By pressing this button, the dialog box will be closed without making any changes.

Options|File window|Info window



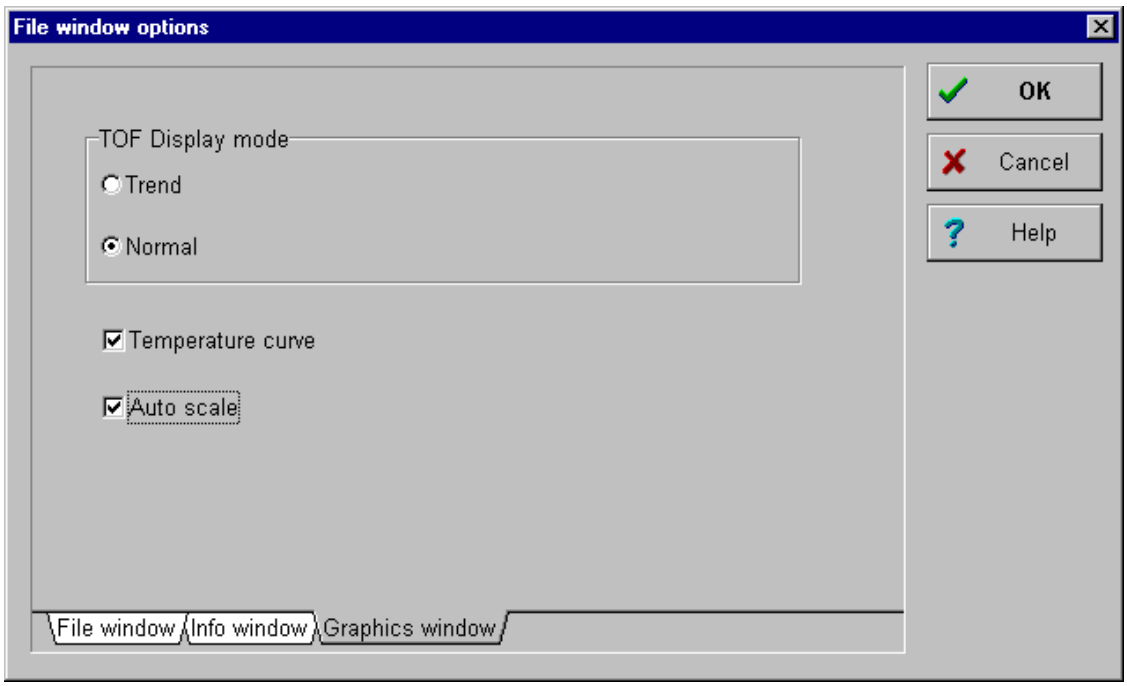
Choose which fields are to be visible in the Info Window.

Info Window Fields

All fields	All fields are shown in the info window
Time	The actual time of the recorded event. This field cannot be unchecked.
Symbols	***** means the a user comment is present for the related event. **?** means that the TOF-Watch SX or the Monitor program has reported some kind of error. **!** means that a TOF alarm has been reported by the TOF-Watch SX.
Mode	Shows the stimulation type: or the mode or an eventual error condition.
Twitch 1	Twitch height in single twitch stimulation, and twitch height of first twitch in TOF modes.
Twitch 2	Twitch height of second twitch in TOF modes.
Twitch 3	Twitch height of third twitch in TOF modes.
Twitch 4	Twitch height of fourth twitch in TOF modes.
TOF Ratio	If four twitches are detected and the first twitch is at least 20%, the TOF ratio is calculated as: TOF ratio = (Twitch 4 / Twitch 1) x 100 [%].
Twitch Counts	The number of twitches after a PTC burst stimulation. In case the TOF Ratio cannot be calculated the number of detect twitches above 3% are shown in this column.
Temperature	The surface temperature measured in °C by the thermal sensor of the TOF-Watch SX can be displayed.
Stimulation current	Shows the stimulation current (0-60 mA).
Pulse width	Shows whether 300 µs or the normal 200 µs pulse width stimulation has been selected.

Sensitivity	The transducer sensitivity setting in the range [1 - 512].
Calibration Mode	Shows the current calibration status together with the calibration current. In CAL mode 1 the current states the current used in the calibration procedure. For CAL mode 2 the supra maximal current found by the TOF-Watch SX is shown. Non calibrated measurements will result in a blank field
TOF Alarm Setting	Show the TOF alarm setting (values outside the alarm window will generate a TOF alarm).
Comments	Show user editable comments related to a recorded event.
OK button	Press this button to accept the settings in the dialog box, save them permanently (i.e. use them as the new standard options) and close the dialog box. Furthermore, all open file windows will be updated according to the settings in this dialog box.
Cancel button	By pressing this button, the dialog box will be closed without making any changes.

Options|File Window|Graphics Window



Display Mode

Controls if data is presented in either Normal Mode or Trend Mode.

Temperature Curve

If checked the temperature curve is plotted the Graphics Window.

Auto scale

If checked the Auto scale function scales the entire graph the whole graph can be seen in the Graphics window. The Auto scale function is only active if the cursor is positioned at the last recorded event. This is to allow the user to do a manual zoom on the graph while in logging mode.

NOTE: Press the END button to place the cursor at the last recorded event in order reactivate auto scaling

OK button

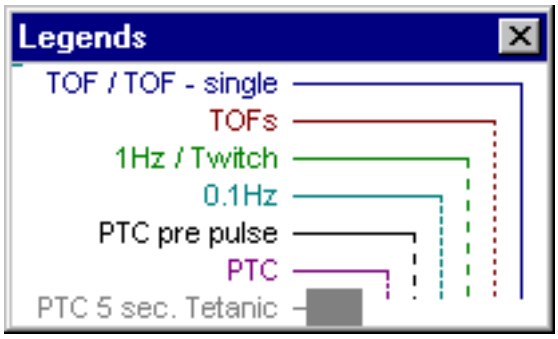
Press this button to accept the settings in the dialog box, save them permanently (i.e. use them as the new standard options) and close the dialog box. Furthermore, all open File Windows will be updated according to the settings in this dialog box.

Cancel button

By pressing this button, the dialog box will be closed without making any changes.

Options|Legend Window

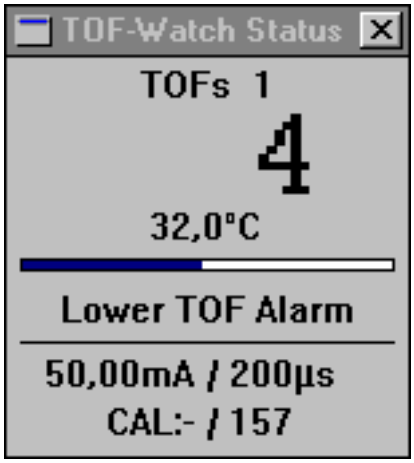
The Legend Window is a legend of line styles and colors used for different stimulation types in the graphs.



The legend window can be toggled on and of by clicking on in the tool bar.

Options|Status Window

The Status window shows the status TOF-Watch SX reported by the device.



This window is only visible when selected in Options|Status window and when connection to the TOF-Watch SX has been established.

Click on the status window for an explanation of the different figures.

Toggle the window on and of by clicking on the tool bar.

Calibration Mode

'**CAL-**' means non calibrated

CAL1 means normal calibration

CAL2 means supra maximal calibration

TOFs progress bar

In case of TOFs mode this bar indicates how old the result is and when to expect the next stimulation

If not in TOFs mode this gauge turns into a normal thin line.

Operational mode

Operational mode and error conditions are shown here.

Stimulation pulse width

Pulse width is shown in µs.

Measurement result.

Valid measurement results shown in %. When no objective measurement are at hand, this field is blank.

Transducer sensitivity.

The transducer sensitivity is shown here ([1 - 512]).

Stimulation strength.

The stimulation strength is shown in mA or µC dependent of the TOF-Watch SX display setting.

Skin temperature.

If available the skin temperature will be shown here in °C, otherwise this field is blank.

TOF Alarm.

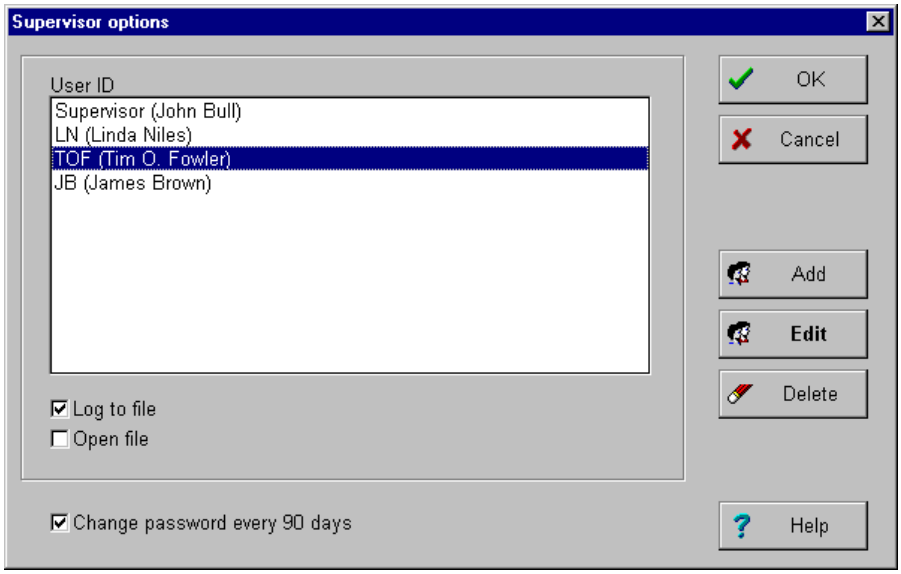
In case of a TOF Alarm reported by the TOF-Watch SX this alarm will be indicated here together with an audible sound.

NB: You must enable the windows system sound: *Exclamation sign* in Windows Control Panel in order to hear this alarm.

Options|Users

This option has two functions depending on which user accessing the menu.

If a SUPERVISOR enters then the Supervisor options appear. If a normal user enters then the Edit user information appear



User ID

This is a list of all registered users in the system. Double click on the user to open the Edit user information window.

Log to file

If checked the selected user is allowed to create and modify files while in an active logging session with the TOF Watch SX.

NB: This option can only be modified by the supervisor and not by each individual user.

Open file

If checked the user can view files and is not allowed to make any changes to them

Change password every 90 days

If checked the option reminds all user to change their passwords after 90 days.

Note: To get full access to a user the SUPERVISOR must check both Log to file and Open file. The above user setting can only be modified by the SUPERVISOR and not by each individual user..

Add button

Adds a new user by bringing up the Edit user information dialog box.

Edit button

Edit an existing user by bringing up the Edit user information dialog box.

Delete button

WARNING: Deletes the selected user.

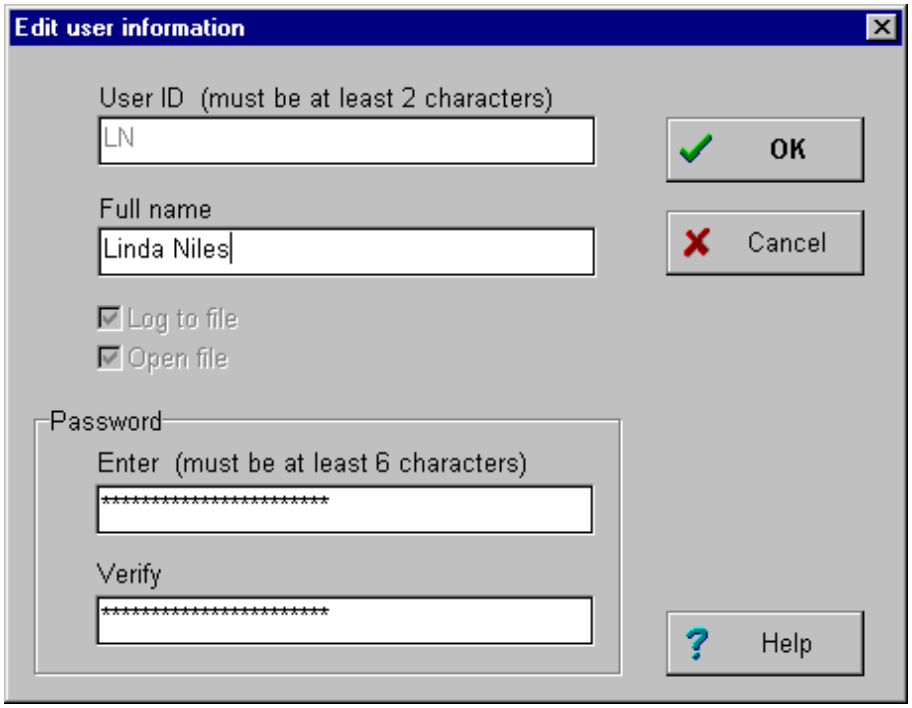
OK button

Stores all changes and closes the dialog box.

Cancel button

Cancels all operations and closes the dialog box.

This dialog box controls the editing of user information.



User ID

Edit the User ID: Note that the user id must be unique i.e. no duplicates. Only letters and numbers are allowed in the User ID. The User ID must contain at least two characters.

NB: This option can only be modified by the SUPERVISOR and not by each individual user.

Full name

Type in the full name of the user in question. This name will be stored in all log files and will appear on all print-outs made by the user.

Password enter

Create or change a password. Only letters and numbers are allowed. The password must contain at least 6 characters.

Password verify

Verify the password by typing the above password one more time.

Window Menu

Command	*Description*
Tile	Choose Window|Tile to tile open File Windows. This option arranges the windows so they cover the entire desktop without overlapping.
Cascade	Choose Window|Cascade to stack all open File Windows. This option overlaps each window so they are the same size and only the title bar of each underlying window is visible.
Arrange Icons	Select Window|Arrange Icons to rearrange the icons. Arranged icons are evenly spaced, beginning at the lower left corner of the desktop. At least one File Window must be Minimized or this command is useless.
Close All	Close all open File Windows.

Help Menu

Command	*Keyboard*	*Tool bar*	*Description*
Help	F1		Help on current topic.
About			Displays the introduction window including the software version of this program.

Glossary

Twitch Cursor

The vertical line pointing from the top border line of the Graphics Window or the Info Window down to the top of a twitch.

Normal Mode

In Normal Mode, all twitches are shown.

Trend Mode

In Trend Mode, all twitches are shown, except for TOF and TOF S stimulations, where only the first twitch is given and the TOF ratio is represented by a red dot attached to the twitch.

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